

CLAIMS

1. A packet communication apparatus comprising:
extracting means for extracting transmit power
control information from a packet signal comprised of
transmission units each including the transmit power
control information;

determining means for determining quality deterioration of the packet signal; and

control means for performing control for halting
10 transmit power control on a transmission unit to be
transmitted after determining the quality deterioration
on the packet signal, based on a determined result.

2. The packet communication apparatus according to claim 1, further comprising:

15 storage means for storing the transmit power
control information for the unit transmission portion
to be transmitted after determining the quality
deterioration on the packet signal;
wherein based on the transmit power control information
20 stored in the storage means, the control means performs
the transmit power control on a beginning unit
transmission portion of a next packet.

3. A packet communication apparatus comprising:
extracting means for extracting transmit power
25 control information from packet signals each comprised
of transmission units each including the transmit power
control information, the packet signals being

determining means for determining quality deterioration of each of the packet signals; and

control means for performing control for halting
5 transmit power control on a transmission unit to be
transmitted after determining the quality deterioration
on a packet signal for the data channel signal, based
on a determined result.

4. The packet communication apparatus according to
claim 3, wherein based on the transmit power control
information for a last unit transmission portion of the
packet signal on the control channel, the control means
performs the transmit power control on a beginning unit
transmission portion of a next packet on the data
channel.

5. The packet communication apparatus according to claim 1, wherein the determining means determines the quality deterioration using the number of times the transmit power control information for increasing
20 transmit power is repeated successively.

6. A communication terminal apparatus provided with a packet communication apparatus, said packet communication apparatus comprising:

extracting means for extracting transmit power
25 control information from a packet signal comprised of
transmission units each including the transmit power
control information;

determining means for determining quality deterioration of the packet signal; and

control means for performing control for halting transmit power control on a transmission unit to be transmitted after determining the quality deterioration on the packet signal, based on a determined result.

7. A base station apparatus provided with a packet communication apparatus, said packet communication apparatus comprising:

10 extracting means for extracting transmit power control information from a packet signal comprised of transmission units each including the transmit power control information;

determining means for determining quality deterioration of the packet signal; and

control means for performing control for halting transmit power control on a transmission unit to be transmitted after determining the quality deterioration on the packet signal, based on a determined result.

20 8. A transmit power control method comprising the steps of:

extracting transmit power control information from a packet signal comprised of transmission units each including the transmit power control information;

25 determining quality deterioration of the packet signal;

performing control for halting transmit power

control on a transmission unit to be transmitted after determining the quality deterioration on the packet signal, based on a determined result; and

performing the transmit power control on a beginning unit transmission portion of a next packet, based on the transmit power control information for a transmission unit after determining the quality deterioration on the packet signal.

9. A transmit power control method comprising the steps of:

extracting transmit power control information from packet signals each comprised of transmission units each including the transmit power control information, the packet signals being transmitted using a data channel and a control channel;

determining quality deterioration of each of the packet signals;

performing control for halting transmit power control on a transmission unit to be transmitted after determining the quality deterioration on a packet signal for the data channel signal, based on a determined result; and

performing the transmit power control on a beginning unit transmission portion of a next packet on the data channel, based on the transmit power control information for a last unit transmission portion in the packet signal on the control channel.

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